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## Abstract

2 This invention is directed towards a paint spray gun having a gun body with a male  
3 thread and having an air nozzle ring with a female thread which can be screwed onto the  
4 male thread of the gun body. The diameter of the thread is between about 30 and about 40  
5 mm. The thread of the invention is a trapezoid thread with a flank angle in the range of  
6 about +/- 20% of 30 °. The thread has a thread height within the range of about +/- 20%  
7 of 1.1 mm, a root to crest clearance within the range of about +/- 20% of 0.1 mm and a  
8 flank clearance within the range of about +/- 20% of 0.15 mm. The effect of these  
9 modifications to a standard trapezoid thread with a flank angle of about 30° is that the  
10 thread is optimally adjusted to serve as a thread connecting the body of a paint spray gun  
11 and a nozzle ring.